METHOD AND SYSTEM FOR SEAT PLACEMENT

ABSTRACT OF THE DISCLOSURE

A method, computer program, and system for generating computer-based models of seats on a passenger compartment floor plate from a first document are provided. According to an exemplary embodiment of the invention, a first document defining a plurality of seat positions and seat identities associated with the seat positions is received. Dimensions according to seat identities are extracted. A model of the seats affixed with fasteners to the passenger compartment floor plate based upon the seat positions, the extracted dimensions, and seat identities is generated. Loads on the fasteners generated by subjecting the model to an acceleration of a known magnitude and direction are simulated and stored. Additionally, a load analysis for the seat configuration is generated demonstrating FAR compliance

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